L Number	Hits	Search Text	DB	Time stamp
1	12	(Zhang.in. or NEC.as.) and ((cut or	USPAT;	2004/01/16 12:23
-	12	cutting or separat\$3 or seperat\$3 or	US-PGPUB	2004/01/10 12:23
		etch\$3 or react\$3) near6 (CNT or nanotube	OD TGFOB	
		or nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
ļ	1	(fullerene adj tube) or (bucky adj tube)		
		or (fullerene adj tube) or nanofiber or		
		nanofilament or (nano adj fiber) or (nano		
		adj filament)))		
2	29	(======)	EPO; JPO;	2004/01/16 11:13
		cutting or separat\$3 or seperat\$3 or	DERWENT;	
		etch\$3 or react\$3) near6 (CNT or nanotube	IBM_TDB	
		or nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
		or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano		
		adj filament)))		
3	734		USPAT;	2004/01/16 10:45
-	'31	(.2./010/001/00//00/00	US-PGPUB	2004/01/10 10:45
4	686	(427/77,78).CCLS.	USPAT;	2004/01/16 10:45
I		, , , , , , , , , , , , , , , , , , , ,	US-PGPUB	
5	1064	(427/226).CCLS.	USPAT;	2004/01/16 10:45
			US-PGPUB	
6	2518	(427/355,372.2,374.1).CCLS.	USPAT;	2004/01/16 10:45
_			US-PGPUB	
7	420	(427/444).CCLS.	USPAT;	2004/01/16 10:45
8	1489	///27/903\ or	US-PGPUB	2004/01/16 12 15
°	1489	((427/903) or	USPAT;	2004/01/16 10:46
9	672	(423/445R, 445B, 447.1, 447.2, 447.3, 447.8)).CC: (423/460, 461).CCLS.	USPAT;	2004/01/16 10:46
·	0,2	(425) 400, 401) . CCES.	US-PGPUB	2004/01/16 10:46
10	449	(83/54).CCLS.	USPAT;	2004/01/16 10:47
	-	(10,000,000,000,000,000,000,000,000,000,	US-PGPUB	2001,01,10 10.4,
11	766	(216/83,94).CCLS.	USPAT;	2004/01/16 10:47
			US-PGPUB	
12	8404	((427/545,551,557,592).CCLS.)	USPAT;	2004/01/16 10:48
		((427/77,78).CCLS.) ((427/226).CCLS.)	US-PGPUB	
		((427/355,372.2,374.1).CCLS.)		
		((427/444).CCLS.) (((427/903) or		
		(423/445R,445B,447.1,447.2,447.3,447.8)).CC ((423/460,461).CCLS.) ((83/54).CCLS.)	LS.)	
		((216/83,94).CCLS.)		
13	12		USPAT;	2004/01/16 10:51
		nanotube or nanotubular or SWNT or MWNT or		2004/01/10 10.51
		SWCNT or MWCNT or nanopipe or (nano adj	00 10102	
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
1.4	_	fiber) or (nano adj filament))		
14	2		USPAT;	2004/01/16 10:52
		nanotubular or SWNT or MWNT or SWCNT or	US-PGPUB	ĺ
		MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube)		
1		or (fullerene adj tube) or nanofiber or		
		nanofilament or (nano adj fiber) or (nano		
		adj filament))		
15	15	((427/355,372.2,374.1).CCLS.) and (CNT or	USPAT;	2004/01/16 10:55
		nanotube or nanotubular or SWNT or MWNT or	US-PGPUB	
ļ		SWCNT or MWCNT or nanopipe or (nano adj		
l		tube) or (fullerene adj tube) or (bucky		
j		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
16	0	fiber) or (nano adj filament)) ((427/444).CCLS.) and (CNT or nanotube or	HCDAM.	2004/01/16 10:55
-	٠ ا	nanotubular or SWNT or MWNT or SWCNT or	USPAT; US-PGPUB	2004/01/16 10:55
		MWCNT or nanopipe or (nano adj tube) or	JU EGEOD	
ļ		(fullerene adj tube) or (bucky adj tube)		
		(rariorene daj cabe) or (backy dai cabe)		
l		or (fullerene adj tube) or nanofiber or		

17	42	((423/460,461).CCLS.) and (CNT or nanotube	USPAT;	T 0004 /04 /4 6 4 5
		or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (fullerene adj tube) or nanofilament or (nano adj fiber) or (nano adj filament))	US-PGPUB	2004/01/16 11:04
18	0	((83/54).CCLS.) and (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))	USPAT; US-PGPUB	2004/01/16 11:04
19	2		USPAT; US-PGPUB	2004/01/16 11:05
	146	(((427/545,551,557,592).CCLS.) ((427/77,78).CCLS.) ((427/226).CCLS.) ((427/77,78).CCLS.) ((427/226).CCLS.) ((427/355,372.2,374.1).CCLS.) ((427/444).CCLS.) ((427/903) or (423/445R,445B,447.1,447.2,447.3,447.8)).CC ((423/460,461).CCLS.) ((83/54).CCLS.) ((216/83,94).CCLS.)) and ((cut or cutting or separat\$3 or seperat\$3 or etch\$3 or react\$3) near7 (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano	USPAT; US-PGPUB	2004/01/16 12:12

		_		
21	107	((((427/545,551,557,592).CCLS.)	USPAT;	2004/01/16 11:14
		((427/77,78).CCLS.) ((427/226).CCLS.)	US-PGPUB	
		((427/355,372.2,374.1).CCLS.)		
	1	((427/444).CCLS.) (((427/903) or		
		(423/445R,445B,447.1,447.2,447.3,447.8)).CC	‡s.)	
		((423/460,461).CCLS.) ((83/54).CCLS.)		
		((216/83,94).CCLS.)) and ((cut or cutting		
		or separat\$3 or seperat\$3 or etch\$3 or		
		react\$3) near7 (CNT or nanotube or		
		nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
		or (fullerene adj tube) or nanofiber or		
	İ	nanofilament or (nano adj fiber) or (nano		
		adj filament)))) not		
		((((427/545,551,557,592).CCLS.) and (CNT		
		or nanotube or nanotubular or SWNT or MWNT		
		or SWCNT or MWCNT or nanopipe or (nano adj		
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) or		
		(((427/226).CCLS.) and (CNT or nanotube or		
		nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
		or (fullerene adj tube) or nanofiber or		
	Į.	nanofilament or (nano adj fiber) or (nano		1
		adj filament))) or		
		(((427/355,372.2,374.1).CCLS.) and (CNT or		
		nanotube or nanotubular or SWNT or MWNT or		
		SWCNT or MWCNT or nanopipe or (nano adj		1
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		ĺ
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) or		
		(((423/460,461).CCLS.) and (CNT or		
		nanotube or nanotubular or SWNT or MWNT or		
		SWCNT or MWCNT or nanopipe or (nano adj		
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) or		
	1	(((216/83,94).CCLS.) and (CNT or nanotube		
00	0.74	or nanotubular or SWNT or MWNT or SWCNT or		
22	271	MWCM27 Ø546afi5pif67of92hafi6L8dj tube) or	USPAT;	2004/01/16 12:13
		(f421efene8adGCL8be) (0f27b02ky.adfstabe)	US-PGPUB	
		ot4274355rene.2d37tube) C6hSnanofiber or		
		ndialitianecobs. Yndind42adj963beer or (nano	l	
		4423f445Re445B) 447.1,447.2,447.3,447.8)).CC	ا ن.)	
		((423/460, 461).CCLS.) ((83/54).CCLS.)		
		((216/83,94).CCLS.)) and ((CNT or nanotube		
		or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
		or (fullerene adj tube) or nanofilament or		
L		(nano adi filament))	L	L

(nano adj filament)))

23	127	((((427/545,551,557,592).CCLS.)	USPAT;	2004/01/16 12:19
		((427/77,78).CCLS.) ((427/226).CCLS.)	US-PGPUB	
		((427/355,372.2,374.1).CCLS.)		
	İ	((427/444).CCLS.) (((427/903) or		
ł		(423/445R, 445B, 447.1, 447.2, 447.3, 447.8)).Co	rt.s. 1	
		((423/460,461).CCLS.) ((83/54).CCLS.)	75.7	
		((216/83,94).CCLS.)) and ((CNT or nanotube		1
		or nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
		or (fullerene adj tube) or nanofilament or		
		(nano adj filament)))) not		
		((((427/545,551,557,592).CCLS.)		
		((427/77,78).CCLS.) ((427/226).CCLS.)		
		((427/355,372.2,374.1).CCLS.)		
		((427/444).CCLS.) (((427/903) or		
İ		(423/445R, 445B, 447.1, 447.2, 447.3, 447.8)).CO	rt.s.)	
		((423/460,461).CCLS.) ((83/54).CCLS.)	70.,	
1		((216/83,94).CCLS.)) and ((cut or cutting		
		or separat\$3 or seperat\$3 or etch\$3 or		i
		react\$3) near7 (CNT or nanotube or		
1			1	
		nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
1		or (fullerene adj tube) or nanofiber or		
24	1	fano fiber) or (nano adj fiber) or (nano	USPAT;	2004/01/16 12:19
		adj filament))))	US-PGPUB	
25	624	((cut or cutting or separat\$3 or seperat\$3	USPAT;	2004/01/16 13:19
1	1	or etch\$3 or shorten\$3 or break\$3 or	US-PGPUB	
		open\$3 or ((reduc\$5 or decreas\$5) near2		
	1	length)) near6 (CNT or nanotube or		
		nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
				1
		or (fullerene adj tube) or nanofiber or		
		nanofilament or (nano adj fiber) or (nano		
		adj filament)))		
26	508	(((cut or cutting or separat\$3 or	USPAT;	2004/01/16 13:18
		seperat\$3 or etch\$3 or shorten\$3 or	US-PGPUB	
		break\$3 or open\$3 or ((reduc\$5 or		
		decreas\$5) near2 length)) near6 (CNT or		
}		nanotube or nanotubular or SWNT or MWNT or		
		SWCNT or MWCNT or nanopipe or (nano adj]
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament)))) not		
		((((427/545,551,557,592).CCLS.)		
		((427/77,78).CCLS.) ((427/226).CCLS.)		
		((427/355,372.2,374.1).CCLS.)		
		((427/444).CCLS.) (((427/903) or]
		(423/445R, 445B, 447.1, 447.2, 447.3, 447.8)).CO	1.8.1	
		((423/445R,445B,447.1,447.2,447.3,447.8)).CC ((423/460,461).CCLS.) ((83/54).CCLS.)	,	
	-	((216/83,94).CCLS.)) and ((cut or cutting		
		or separat\$3 or seperat\$3 or etch\$3 or		1
		react\$3) near7 (CNT or nanotube or		
		nanotubular or SWNT or MWNT or SWCNT or		
		MWCNT or nanopipe or (nano adj tube) or		
		(fullerene adj tube) or (bucky adj tube)		
1	1	or (fullerene adj tube) or nanofiber or		
27	1	6400525apant or (nano adj fiber) or (nano	USPAT;	2004/01/16 13:18
		<pre>adj filament))))</pre>	US-PGPUB	
28	8	(((react\$4) near3 (solid)) near6 (CNT or	USPAT;	2004/01/16 13:49
1		nanotube or nanotubular or SWNT or MWNT or	US-PGPUB	
1		SWCNT or MWCNT or nanopipe or (nano adj		ļ l
	[tube) or (fullerene adj tube) or (bucky		
]	adj tube) or (fullerene adj tube) or		l l
1		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament)))		
L		TIDEL OF (Hano ad) IIIament)))		

6 (((diffus\$5) nanotube or n SWCNT or MWCN tube) or (ful adj tube) or nanofiber or fiber) or (na ((((diffus\$5) metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene nanofilament adj filament) length or sho or broken)) ((((diffus\$5) metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene nanofilament adj filament) length or sho or fullerene nanofilament adj filament) length or sho or broken or (((diffus\$5) metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken or truncat\$5)) ((((diffus\$5) metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene nanofilament adj filament) length or sho or broken or truncat\$5)) ((((diffus\$5) metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho	ear3 (solid)) with (CNT or anotubular or SWNT or MWNT or or nanopipe or (nano adj lerene adj tube) or (bucky (fullerene adj tube) or nanofilament or (nano adj	USPAT; US-PGPUB	2004/01/16 13:26
31 30 ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken)) 32 36 ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken or ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken or truncat\$5)) (((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken or truncat\$5)) ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene ad or (fullerene nanofilament adj filament) length or sho	no adj filament))) near4 (solid)) with (CNT or anotubular or SWNT or MWNT or I or nanopipe or (nano adj lerene adj tube) or (bucky (fullerene adj tube) or nanofilament or (nano adj	USPAT; US-PGPUB	2004/01/16 13:31
32 36 ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament) length or sho or broken or ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken or truncat\$5)) 34 60 ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene or truncat\$5)) ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene ad or (fullerene ad or (fullerene nanofilament adj filament) length or sho	or react\$3) near4 (solid or or niobium or semiconduct\$4 con)) same (CNT or nanotube or or SWNT or MWNT or SWCNT or pipe or (nano adj tube) or j tube) or (bucky adj tube) adj tube) or nanofiber or or (nano adj fiber) or (nano adj fiber) or (nano cut\$4 or etch\$3 or rten\$3 or open\$3 or break\$3	USPAT; US-PGPUB	2004/01/16 13:33
33 96 ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho or broken or truncat\$5)) 34 60 ((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho	or react\$3) near4 (solid or or niobium or semiconduct\$4 con)) same (CNT or nanotube or or SWNT or MWNT or SWCNT or pipe or (nano adj tube) or j tube) or (bucky adj tube) adj tube) or nanofiber or or (nano adj fiber) or (nano adj fiber) or (nano adj fiber) or same (cut\$4 or etch\$3 or or or or or or or or or or or or or	USPAT; US-PGPUB	2004/01/16 13:51
34 60 (((((diffus\$5 metal\$3 or Nb or Si or sili or nanotubula MWCNT or nano (fullerene ad or (fullerene nanofilament adj filament) length or sho	or react\$3) near8 (solid or or niobium or semiconduct\$4 (con)) same (CNT or nanotube or SWNT or MWNT or SWCNT or pipe or (nano adj tube) or j tube) or (bucky adj tube) adj tube) or nanofiber or or (nano adj fiber) or (nano a) same (cut\$4 or etch\$3 or or ten\$3 or open\$3 or break\$3 (separat\$4 or seperat\$4 or	USPAT; US-PGPUB	2004/01/16 14:26
truncat\$5))) near4 (solid or semiconduc (CNT or nanot MWNT or SWCNT (nano adj tub (bucky adj tub or nanofiber fiber) or (nano (cut\$4 or etc)	or react\$3) near8 (solid or or niobium or semiconduct\$4 (con)) same (CNT or nanotube or or SWNT or MWNT or SWCNT or Dipe or (nano adj tube) or j tube) or (bucky adj tube) adj tube) or nanofiber or or (nano adj fiber) or (nano adj fiber) or (nano adj fiber) or same (cut\$4 or etch\$3 or oten\$3 or open\$3 or break\$3 or oten\$3 or open\$3 or break\$3 or metal\$3 or Nb or niobium c\$4 or Si or silicon)) same ube or nanotubular or SWNT or or MWCNT or nanopipe or c\$0 or (fullerene adj tube) or of (fullerene adj tube) or nanofilament or (nano adj no adj filament))) same u\$3 or length or shorten\$3 or ak\$3 or broken or separat\$4		2004/01/16 13:40

36	20	((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj	USPAT; US-PGPUB USPAT; US-PGPUB	2004/01/16 14:25
36	20	SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	USPAT;	2004/01/16 14:24
36	20	or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	<pre>(nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)</pre>	1 '	2004/01/16 14:24
36	20	same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	or separat\$4 or seperat\$4 or truncat\$5)) ((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
36	20	same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	1 '	2004/01/16 14:24
		SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube)	US-PGPUB	
		or (nano adj tube) or (fullerene adj tube)	1	l
		or (nano adj tube) or (fullerene adj tube) or (bucky adi tube) or (fullerene adi		
		IOI (DUCKY ad) tube) or (Tillierene ad)		
1		tubol or renefiber or renefilement		
		tube) or nanofiber or nanofilament or		
37	17	(nano adj fiber) or (nano adj filament))))		2004/01/16 12 45
3 /	17	(((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or	USPAT;	2004/01/16 13:45
		SWNT or MWNT or SWCNT or MWCNT or nanopipe	US-PGPUB	
1		or (nano adj tube) or (fullerene adj tube)		
		or (bucky adj tube) or (fullerene adj		
		tube) or nanofiber or nanofilament or		
		(nano adj fiber) or (nano adj		
		filament))))) not ((((diffus\$5 or		
		react\$3) near5 (carbide)) same (CNT or		
		nanotube or nanotubular or SWNT or MWNT or		
		SWCNT or MWCNT or nanopipe or (nano adj		
		tube) or (fullerene adj tube) or (bucky	:	
		adj tube) or (fullerene adj tube) or	!	
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) same		
		(cut\$4 or etch\$3 or length or shorten\$3 or		
		open\$3 or break\$3 or broken or separat\$4		
		or seperat\$4 or truncat\$5)))		
38	26		USPAT;	2004/01/16 14:24
		nanotube or nanotubular or SWNT or MWNT or	US-PGPUB	
		SWCNT or MWCNT or nanopipe or (nano adj		
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
39	13	fiber) or (nano adj filament)))		0004/04/45 55 15
ا	13	((((=====))	USPAT;	2004/01/16 13:49
		nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj	US-PGPUB	
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament)))) not		
		((((react\$4) near3 (solid)) with (CNT or		
		nanotube or nanotubular or SWNT or MWNT or		
		SWCNT or MWCNT or nanopipe or (nano adj		
		tube) or (fullerene adj tube) or (bucky		
	İ	adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))))		
40	6	(((diffus\$4) near6 (solid)) with (CNT or	USPAT;	2004/01/16 14:22
1		nanotube or nanotubular or SWNT or MWNT or	US-PGPUB	
	l	SWCNT or MWCNT or nanopipe or (nano adj		
	ļ	tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
1		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament)))		_
		tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj		

			_	
41	0	((((diffus\$4) near6 (solid)) with (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) not ((((diffus\$5) near4 (solid)) with (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))))	US-PGPUB	2004/01/16 13:50
42	131	((((diffus\$5 or react\$3)) with (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) with (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4	USPAT; US-PGPUB	2004/01/16 14:19
43	73	((((diffus\$5 or react\$3)) with (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) with (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$6))) not ((((diffus\$5 or react\$3) near8 (solid or metal\$3 or Nb or niobium or semiconduct\$4 or Si or silicon)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5)))	USPAT; US-PGPUB	2004/01/16 13:52
44	278	((((carbide or metal\$4 or semiconduct\$4 or Nb or niobium or Si or silicon)) with (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) with (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$6))	USPAT; US-PGPUB	2004/01/16 14:17

45	79	((((carbide or metal\$4 or semiconduct\$4	USPAT;	2004/01/16 13:59
		or Nb or niobium or Si or silicon)) with	US-PGPUB	i
		(CNT or nanotube or nanotubular or SWNT or		
		MWNT or SWCNT or MWCNT or nanopipe or		_
İ		(nano adj tube) or (fullerene adj tube) or		· ·
		(bucky adj tube) or (fullerene adj tube)		
		or nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) with		
		(cut\$4 or etch\$3 or length or shorten\$3 or		
		open\$3 or break\$3 or broken or separat\$4		İ
		or seperat\$4 or truncat\$6))) and	1	
		(((427/545,551,557,592).CCLS.)		
		((427/77,78).CCLS.) ((427/226).CCLS.)		İ
		((427/355, 372.2, 374.1).CCLS.)		·
		((427/444).CCLS.) (((427/903) or		
}		(423/445R, 445B, 447.1, 447.2, 447.3, 447.8)).CC	١,	
		((423/460, 461).CCLS.) ((83/54).CCLS.)	13.7	Ì
46	191		IICDAM.	2004/01/16 14:12
40	191	((21648Bide)occhetal\$4 or semiconduct\$4 or	USPAT;	2004/01/16 14:12
İ		Nb or niobium or Si or silicon)) with (CNT	US-PGPUB	
		or nanotube or nanotubular or SWNT or MWNT		
		or SWCNT or MWCNT or nanopipe or (nano adj		
		tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) with		
	1	(cut\$4 or length or shorten\$3 or break\$3		
	1	or broken or separat\$4 or seperat\$4 or		
}	ľ	truncat\$6))		
47	60	((((carbide or metal\$4 or semiconduct\$4 or	EPO; JPO;	2004/01/16 14:12
	1	Nb or niobium or Si or silicon)) with (CNT	DERWENT;	
		or nanotube or nanotubular or SWNT or MWNT	IBM TDB	
		or SWCNT or MWCNT or nanopipe or (nano adj	_	
	i	tube) or (fullerene adj tube) or (bucky		
		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) with		
	1	(cut\$4 or length or shorten\$3 or break\$3	i	
		or broken or separat\$4 or seperat\$4 or		
		truncat\$6))		
48	86	((((carbide or metal\$4 or semiconduct\$4 or	EPO; JPO;	2004/01/16 14:18
••		Nb or niobium or Si or silicon)) with (CNT	DERWENT;	2004/01/10 14.10
		or nanotube or nanotubular or SWNT or MWNT	IBM TDB	
1		or SWCNT or MWCNT or nanopipe or (nano adj	100-106	
		tube) or (fullerene adj tube) or (bucky		
]		adj tube) or (fullerene adj tube) or		
		nanofiber or nanofilament or (nano adi		
		, , , , , , , , , , , , , , , , , , , ,		
		fiber) or (nano adj filament))) with		
		(cut\$4 or etch\$3 or length or shorten\$3 or		
I		open\$3 or break\$3 or broken or separat\$4		
49	1 20	or seperat\$4 or truncat\$6))	EDO: TOO	2004/01/16 11 15
4 7	26	(((((carbide or metal\$4 or semiconduct\$4	EPO; JPO;	2004/01/16 14:18
1		or Nb or niobium or Si or silicon)) with	DERWENT;	
		(CNT or nanotube or nanotubular or SWNT or	IBM_TDB	
		MWNT or SWCNT or MWCNT or nanopipe or		
		(nano adj tube) or (fullerene adj tube) or		
		(bucky adj tube) or (fullerene adj tube)		
		or nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) with		
		(cut\$4 or etch\$3 or length or shorten\$3 or		
		open\$3 or break\$3 or broken or separat\$4		
		or seperat\$4 or truncat\$6))) not		
		(((((carbide or metal\$4 or semiconduct\$4		
		or Nb or niobium or Si or silicon)) with		
		(CNT or nanotube or nanotubular or SWNT or		
		MWNT or SWCNT or MWCNT or nanopipe or		
		(nano adj tube) or (fullerene adj tube) or		[
		(bucky adj tube) or (fullerene adj tube)		
		or nanofiber or nanofilament or (nano adj		
		fiber) or (nano adj filament))) with		
		(cut\$4 or length or shorten\$3 or break\$3		
		or broken or separat\$4 or seperat\$4 or		
		truncat\$6)))		
			l	L

50	23	nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) with (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$6))	EPO; JPO; DERWENT; IBM_TDB	2004/01/16 14:20
51	2	(((diffus\$4) near6 (solid)) with (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament)))	EPO; JPO; DERWENT; IBM_TDB	2004/01/16 14:22
52	5		EPO; JPO; DERWENT; IBM_TDB	2004/01/16 14:23
53	3		EPO; JPO; DERWENT; IBM_TDB	2004/01/16 14:24
54	0	((((diffus\$5 or react\$3) near5 (carbide)) same (CNT or nanotube or nanotubular or SWNT or MWNT or SWCNT or MWCNT or nanopipe or (nano adj tube) or (fullerene adj tube) or (bucky adj tube) or (fullerene adj tube) or nanofiber or nanofilament or (nano adj fiber) or (nano adj filament))) same (cut\$4 or etch\$3 or length or shorten\$3 or open\$3 or break\$3 or broken or separat\$4 or seperat\$4 or truncat\$5))	EPO; JPO; DERWENT; IBM_TDB	2004/01/16 14:25
55	41		EPO; JPO; DERWENT; IBM_TDB	2004/01/16 14:25

56 1	6 (((((diffus\$5 or react\$3)) same (CNT or	EPO; JPO;	2004/01/16 14:25
30 1			2004/01/16 14:25
	nanotube or nanotubular or SWNT or MWNT or	DERWENT;	
	SWCNT or MWCNT or nanopipe or (nano adj	IBM_TDB	
	tube) or (fullerene adj tube) or (bucky		
	adj tube) or (fullerene adj tube) or		
	nanofiber or nanofilament or (nano adj		
	fiber) or (nano adj filament))) same		
	(cut\$4 or etch\$3 or length or shorten\$3 or		
	open\$3 or break\$3 or broken or separat\$4		
	or seperat\$4 or truncat\$5))) not		
	<pre>(((((((carbide or metal\$4 or semiconduct\$4</pre>		
	or Nb or niobium or Si or silicon)) with		
	(CNT or nanotube or nanotubular or SWNT or		
	MWNT or SWCNT or MWCNT or nanopipe or		
	(nano adj tube) or (fullerene adj tube) or		
	(bucky adj tube) or (fullerene adj tube)	1	
 	or nanofiber or nanofilament or (nano adj		
	fiber) or (nano adj filament))) with		
	(cut\$4 or etch\$3 or length or shorten\$3 or		
	open\$3 or break\$3 or broken or separat\$4	:	
į	or seperat\$4 or truncat\$6))) not		1
 	(((((carbide or metal\$4 or semiconduct\$4		
 	or Nb or niobium or Si or silicon)) with		
•	(CNT or nanotube or nanotubular or SWNT or		
<u> </u>	MWNT or SWCNT or MWCNT or nanopipe or		1
	(nano adj tube) or (fullerene adj tube) or		
	(bucky adj tube) or (fullerene adj tube)		
•	or nanofiber or nanofilament or (nano adj		
	fiber) or (nano adj filament))) with		
	(cut\$4 or length or shorten\$3 or break\$3		
	or broken or separat\$4 or separat\$4 or		
	truncat\$6)))) or ((((diffus\$5 or		
	react\$3)) with (CNT or nanotube or		
	nanotubular or SWNT or MWNT or SWCNT or		
	MWCNT or nanopipe or (nano adj tube) or		
	(fullerene adj tube) or (bucky adj tube)		
	or (fullerene adj tube) or nanofiber or		
	nanofilament or (nano adj fiber) or (nano		
	adj filament))) with (cut\$4 or etch\$3 or		
	length or shorten\$3 or open\$3 or break\$3		İ
	or broken or separat\$4 or seperat\$4 or		
	truncat\$6))))		
57	5 ((((diffus\$5 or react\$3) near8 (solid or	EPO; JPO;	2004/01/16 14:27
[metal\$3 or Nb or niobium or semiconduct\$4	DERWENT;	
	or Si or silicon or carbide)) same (CNT or	IBM_TDB	
	nanotube or nanotubular or SWNT or MWNT or		
	SWCNT or MWCNT or nanopipe or (nano adj		
	tube) or (fullerene adj tube) or (bucky		
	adj tube) or (fullerene adj tube) or		
	nanofiber or nanofilament or (nano adj		1
	fiber) or (nano adj filament))) same		
	(cut\$4 or etch\$3 or length or shorten\$3 or	1	
	open\$3 or break\$3 or broken or separat\$4		
1	or seperat\$4 or truncat\$5))		